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Isle City, in Cape May County. Owing to decomposition the bones were not obtained then, and on later visit to the locality the specimen could not be found.

In addition to the above species I have secured since 1908 the following cetaceans at or near Sea Isle City; these are now in the collections of the Academy of Natural Sciences of Philadelphia: *Globicephala brachyptera* Cope, *Kogia breviceps* DeB., *Mesoplodon densirostris* DeB., and *Tursiops truncatus* Mont.

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OF PHILADELPHIA

*Note.*—Since the above was written one of the fish-pound crews at Sea Isle City brought in on September 25, 1915, seven live specimens of *Delphinus delphis*.

#### THE FUR SEAL REPORT

TO THE EDITOR OF SCIENCE: At pages 41, 44 and 57 of the fur seal report of Messrs. Osgood, Preble and Parker for 1914, Senate Document No. 980, recently published, occur important statistical tables giving enumerations of the different classes of seals for 1912, 1913 and 1914, conclusions and inferences from which affect vitally the report as a whole. The source of the figures for 1912 and 1913, which could only have been obtained from the field notes and unpublished reports of the writer now in the hands of the commissioner of fisheries at Washington, is not indicated and in the paragraph of general acknowledgment at page 17 credit to former workers is limited to "printed reports."

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November 19, 1915

#### ROGER BACON AND GUNPOWDER

IN his paper "Roger Bacon and Gunpowder" contributed to the "Roger Bacon Commemoration Essays" (edited by A. G. Little, Oxford, 1914), Colonel Hime tries to prove Roger Bacon the inventor of gunpowder by the method employed to prove Francis Bacon the author of Shakespeare's plays—a cipher. Since other contributors to the same volume refer favorably to this effort (Mr. A. G. Little, p. 395, calls it an "ingenious

explanation" and Mr. Patterson Muir, p. 301, says that "Colonel Hime establishes a large probability" in its favor), it may be well to note some points against it quite apart from the merits of the cipher itself.

In the first place, the cipher is based upon chapters of the "Epistola de secretis operibus naturæ et de nullitate magiæ" not found in the early manuscript of that work and considered doubtful by Charles in his work on Roger Bacon. Indeed, the opening phrases of two chapters, "Transactis annis Arabum sexcentis et duobus," and "Annis Arabum 630 transactis" suggest their source.

Secondly. Roger Bacon openly alludes to gunpowder in 1267 in his "Opus Tertium" as already in common use in children's toy explosives. Therefore Colonel Hime has to date the "De secretis" at 1248, and to hold that Bacon was at that time "driven to employ cryptic methods by fear of the Inquisition" (p. 334), but that by 1267

circumstances had totally changed in the lapse of years; the composition of gunpowder . . . had been divulged, and the first use made of the deadly mixture was for the amusement of children (p. 321).

But is there any good reason for dating the "De secretis" in 1248? Much of it sounds like a brief popular compilation from Bacon's three works of 1267-8 concocted by some one else later; compare, for instance, the first paragraph of the sixth chapter of the "De secretis" with Duhem, "Un fragment inédit de l'Opus Tertium," pp. 153-4 and Little, "Part of the Opus Tertium," 50-51. The dedication of the "De secretis" to William, Bishop of Paris, who died in 1249, occurs first in the late edition of 1618 and has not been found by Little in any manuscript.

Then the inquisition bug-a-boo is negligible. Has any one ever shown that the inquisition punished a practical invention? It was not for having invented the telescope that Galileo was persecuted. Moreover, Galileo's was an exceptional case, and it can not be shown that in the thirteenth century the church persecuted men of science. Rather, popes and prelates were their patrons.